RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/554, 173A
Source:	TEWO
Date Processed by STIC:	03/21/2007
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IFWO

RAW SEQUENCE LISTING DATE: 03/21/2007
PATENT APPLICATION: US/10/554,173A TIME: 10:35:38

Input Set : A:\SEQLIST 2002400.TXT

Output Set: N:\CRF4\03212007\J554173A.raw

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        Hertzberg, Magnus
 7 <120> TITLE OF INVENTION: TISSUE SPECIFIC PROMOTERS
10 <130> FILE REFERENCE: 514862002400
12 <140> CURRENT APPLICATION NUMBER: 10/554,173A
13 <141> CURRENT FILING DATE: 2005-10-21
15 <150> PRIOR APPLICATION NUMBER: PCT/SE2004/000604
16 <151> PRIOR FILING DATE: 2004-04-20
18 <150> PRIOR APPLICATION NUMBER: SE0301233-3
19 <151> PRIOR FILING DATE: 2003-04-28
21 <160> NUMBER OF SEQ ID NOS: 5
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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26 <211> LENGTH: 1093
27 <212> TYPE: DNA
28 <213> ORGANISM: Populus tremula x tremuloides
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33 acaatattta gtcctgtcta atcatagaaa tcttgtctcc gtacatgaaa gttgattaaa 180
34 aataaataag ttattaatct tattagttaa tttgatgtat tgattcatga gtttagtaga 240
35 tttatccatc aaatctaata tgtatttttt tagtttttgg ttcattgatt tttctaattg 300
36 tttttttatt ttactatttt tcagtattgr attgtttaaa aaataaaatt tatagtttat 360
37 tttttttttc tatagagcta tcactatctc aataaatatc tttttagagt tggtgtttga 420
38 ttttgtaaac atcaaatttt atcataaaat taaataaaaa taatttataa aaacaacaaa 480
39 gtttaaacct attgaaatct ataacccaag tcacaaagtt accaaaactt atttaatttg 540
40 gtatcatctc aataataatt aaaaaattat tgttttaatt tttttttaaa tctatcatat 600
41 tttaactaat tatttaaatt atctttgaac ttattaaatt aaattrttca tgcttqttag 660
42 agaaaatatt ctactaataa ataacttttg tcatactaag tcatgaaaaa tgtgatcttt 720
43 aatgatacaa gaacagaagt ccaaaagcag ggggggtaaa gaaagggaga ggttgcctat 780
44 atatttgcct tacacttact ctacaaggaa ccttttgcac ctaatgagcg taataaatag 840
45 tatagcayga tagcaatagc acaatagctc agaaatgata tagcttctaa ctaatataga 900
46 agacaacacg agcccaagat gttagccctc caacttatgc caccctaacc tgcgtttata 960
47 ctctaaaaag ataaatgtag aaaaaaagtg aaaacctaac tgtacatggc tttagcttta 1020
48 ctcctactca aacagccata aaaaatccca aaacgaggcc tctaaaaagtg tcctcatcat 1080
49 tctqttqctt caq
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53 <212> TYPE: DNA
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RAW SEQUENCE LISTING DATE: 03/21/2007 PATENT APPLICATION: US/10/554,173A TIME: 10:35:38 Input Set : A:\SEQLIST 2002400.TXT Output Set: N:\CRF4\03212007\J554173A.raw 59 atttagtatt gcgtttcaaa taggggttga ataaattttg aattttattt ctgtttaaaa 180

60 ttatttttt tatgttttca aatcgttttg atgtgctgat atcaaaaata attttgaaaa 240 61 aaatatatat tattttgatg tatttttgaa taaaaaatac tttgaaaaac aactggttat 300 62 tacagtetea aacaeteeta gtagtettag geatagttta aaaeteagte egaeetggeg 360 63 ggtcgacttg ggactggaac cgggccgagt taaagaaaaa aataaaaaaa gaaaaaactt 420 64 ggtgtgacct ggtgactcgg ttgacccaga tgcaacccat tgatttttgt ttttttaaa 480 65 ctaaaattac attgttttgc ttttttaaaa aaaaaaattg acccgtcaaa cctggtcaaa 540 66 acceggaate gaggtettgg accgggaegg gtetaaaaac tatgatettt ggteaatata 600 67 ttaagacaac aaggtcaaat taaagggtaa tcaaaggaga gtttttttt ggttggttgg 660 68 ttggttttgg acctaatcat acaatcataa aataatcatg gatcaaaatg taggtaattc 720 69 aatcatggtg tgtaatagat tttttatatg atcatgtgtc accagctagg tctttttcca 780 70 aaattctaac aagaggttgg tatatgtaat aaaattatct ttaaacagac acaacccaca 840 71 ccctctataa ttaatcttaa caacaagtta atataaaaca atttttttt tttgtctaaa 900 72 tatattttgc tgaygggtag catcccacca actatctggt gcagatagca actcaagtcc 960 73 ttcccaataa acacattttt ccatgattcc tttcacttca agtgacaact aaacgaagca 1020 74 aagcetegte aaattaaaaa aaaaaaaaa agggtteega ataateataa tgtggetttt 1080 75 gagtttgcca gtacctgtca tcgaccrgtt agcttcaacc tccgcaaaaa aacatacagc 1140 76 ttcgctataa aacaactcct tgtttattaa ttgttgtctt ccacrtctct caatctctct 1200 77 caaagaatcc ctttctttt cctcaaaact caggggtcag tatct 79 <210> SEQ ID NO: 3 80 <211> LENGTH: 1133 81 <212> TYPE: DNA 82 <213> ORGANISM: Populus tremula x tremuloides 84 <400> SEQUENCE: 3 85 atcagcgcat caaaattatc taaaaacatt aaaagtatat taatttcaag aaaaaaaata 60 86 aaaaaattta aaaaaaattt acaaataaat ttaaaattca aatacaaaac agattgatat 120 87 agaatttact attaattata cctctataag cagagacata atattctctt ttgagaaaca 180 88 aaatattatt ataattgata ttccaacaaa aaaacaaatc aatctcttta ttttagaaag 240 89 taaaataact tataattgtt cataattgtt tgtagatgga cgtcatgttt gtcgggggta 300 90 gacgccctct tggttaaaat aaaataaaaa aataattttc taatcttatc caaaatttgt 360 91 aacctctgyc aactgaaata tagtattctt agaattgata ttttaaatga aatccaaatg 420 93 ataaaataaa aaattacaag gtaattatgc acctagaaat ttttattttt ttaatataat 540 94 aatacccctt tctgactgga aaaggctgcg aggttgtcat tcacacaaca aatatcagct 600 95 atttcaggat ccatcgcagt actcgcaatc ttcacattta gcaaaatcag agcagcgtat 660 96 gccctgtttt tttcaccttt ttatcgcact aatcctagag acgaacagtg tttattgttt 720 97 ttctcttaat atttgacctt ttcacttatt ygaaaagtca aatgttaatt tccaccgagc 780 98 tttatcctgt aaatagcgtg tttaatgcca gctgtaaata agatagatga tcgattttgt 840 100 acctaagatg tgaactcttg gcgtctctag ctgtttctgt ctctagaaca acctctacga 960 101 gtatageega ageatateet ageaagettg aaceatatet actaceteee teecegetat 1020 102 atatatataa accactette tteetagaaa aaaaataace etegatettt etttettgtg 1080 103 cttatgttga ttttgtttga ttttcatata tcatgagcaa tataccaaga tct 105 <210> SEQ ID NO: 4 106 <211> LENGTH: 1807 107 <212> TYPE: DNA 108 <213> ORGANISM: Populus tremula x tremuloides

110 <220> FEATURE:

111 <221> NAME/KEY: misc feature

DATE: 03/21/2007 TIME: 10:35:38

Input Set : A:\SEQLIST 2002400.TXT Output Set: N:\CRF4\03212007\J554173A.raw 112 <222> LOCATION: 616 113 <223> OTHER INFORMATION: n = A,T,C or G 115 <400> SEQUENCE: 4 116 gatgcaaaag ctggaatgag aatgcgctaa atgcgaaaag acagagagag cgaataaatc 60 117 gtgcaaaaaa aggagtgggg tgggtaacgg gttgagctag aagaagaaaa gggacaagtg 120 118 cactttagga ggggggcaac cagagcgtag atgataatgg ttcatgtgga aacaacacac 180 119 atgagcagtt ggtgagaact tgaatgaacc ctaacagccc aaccaaaccc ggagccaccc 240 120 ttaccgaacc accacttcta aaagtacacc atgccttttt cttgagcytg gttgcacagg 300 121 gtgccrggtg gggttgtttc gttttgggta atcatgcgat agtttaaata cctttgcgat 360 122 aatcatatca atggygactt ttaagcacat gttaggtgct cggttcttat ctaaacatgg 420 123 acatggcmac aagagttaat gctaaaataa tatacgtaca tacctgtgaa tgaatcgtcg 480 124 ctgtcttctg attatggctt caaattaata tgcagataaa caagtgtcga tttttcagtg 540 125 aagattttat gaaagtgccc gttctcctta agattacctg tgaatgaatc atccctgtca 600 W--> 126 ggctgatcct gggtgntttt tccccatgrt gttcggaaga tataattata taaatgatgg 660 127 aatttacatg aaataagttt cagtacattc ttagcagaaa agcaatatcg acgaagacaa 720 128 atgatgctgt ttaagacaaa ctggggtaat atcaatttac tagtaagaga tttgkctgct 780 129 tttcttaatt ctcaagaaac ttycactaaa atgcacagcc atgttaaaca atttacgttc 840 130 aacttaaaaa ctaaaactgc aggatgggta gctatccaag aatgattaat aaacgatttt 900 131 aacaaagaac tacgtttttt gtaaacttaa ttttgatggg catgtagtta acaagtattt 960 132 gtcattgatc aattcaagag ccatgtctgc atcataattg tgggagtgga ggaggctttt 1020 133 gttgctaggg aaggaatgcc ttcttagttc atggctttgg acttcggaca aggagcgcat 1080 134 agaatggggt taccattttt gaaaaaaatt acatttgaac cctccaacta ttatcatgta 1140 135 tgtttaatct acaatcctcg tccgctagaa gaagtttggg ttcaaagtca tccgctcaat 1200 136 gtaaaccatg gagaggcagg gactaattga aaatagtatg ttagttggag ggtctgcatg 1260 137 tattatgtcc aaacattctc ttattattcc tgtatcatct ctgagaaatt catccgaaaa 1320 138 taataaaaca aaatggcctt ttttaaaaaa agaagctgat gcataggata ccaaaagcgc 1380 139 cttgtccatt aggagcgtca gactttgaaa ataagaccaa taattccctg taagctatca 1440 140 tctcatcttt tattttgttt gaacttgtag acgtaggett taagegttee atgatgttea 1500 141 gtcacatgtt gctgtctact tgattatgga atttaattca ttcggctcat aagaagataa 1560 142 aaggattatg acgttgaaga actctggtca ctccttactt acggtcacat aaaaacgatg 1620 143 catctttccc caccaaccat cttcaagtga acccactttc ccttgcatta ggtaaggagt 1680 144 atgggttaag tcatcttcat gaaattagtc ccctagtgga gctaattcta ctcactccat 1740 145 atttactcat tocactatat aacgccctca acgaccatcc tcaaagcaac ccaaacacct 1800 146 tcttctc 148 <210> SEQ ID NO: 5 149 <211> LENGTH: 1494 150' <212> TYPE: DNA 151 <213> ORGANISM: Populus tremula x tremuloides 153 <220> FEATURE: 154 <221> NAME/KEY: misc_feature 155 <222> LOCATION: 337 156 <223> OTHER INFORMATION: n = A, T, C or G 158 <400> SEQUENCE: 5 159 tctgcttatg aatggcatgg acaacaagct ctgcattttc gcccatttgc accacaaaat 60 160 cgttgtgtga agatttttga agggcaccag cacaactttg aaaagaactt gtgaaaagat 120 161 agctggtcac cagatggaag caaggttact agtgcagatc gcatggctta tatatgaatc 180 162 tgtcaatgag tgtgtcttcc acctactgaa cctatctttg gatcatgcag cagcgacaaa 240 163 cagatttatc ttggggaaat ctgattacta ttttgtcagt ttgcttaaaa cgagttgtta 300 W--> 164 gtaacagtga ggatattycg gggcttgctt gtgagcnccc aacagaaaag attaaacagg 360

RAW SEQUENCE LISTING

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Input Set : A:\SEQLIST 2002400.TXT

Output Set: N:\CRF4\03212007\J554173A.raw

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167	gctcaaaatg	tatgttcgag	caatatgcct	ggtgaatgtt	tgttaagata	cggaaaatta	540
168	agttactgaa	cttgtactct	ttgattttga	aacaagtttc	cgactatgtt	cattgtccta	600
169	gcacggtgat	attgatacgt	cgaattttca	actatttttg	tcttgttttc	aactatttct	660
170	gtcttgattt	tcaaagtctt	tttgaaaata	aaaaacccaa	aaatatgttt	tcagtgtctt	720
171	gttagctaaa	tctgttgtac	aaccaagcct	ccccgacttg	ctttgtgaaa	aagaaagatg	780
					gataactgat		
					atttctgagg		
					cgcaacaatt		
					gattatattt		
					ccaagatatg		
					agattgttct		
					aattatcagc		
					gttcagcgca		
					aaaagcagcc		1320
181	gtcagcccac	tagcatttgc	tggtgaccaa	tcagatcata	aaaggaaaac	tagccgttgg	1380
					atatgcttag		
183	atccccttca	acaaattatc	tcaatcttca	aaacccagtc	cccagttaca	gcag	1494

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/554,173A

DATE: 03/21/2007 TIME: 10:35:39

Input Set : A:\SEQLIST 2002400.TXT

Output Set: N:\CRF4\03212007\J554173A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 616 Seq#:5; N Pos. 337

VERIFICATION SUMMARY

DATE: 03/21/2007 TIME: 10:35:39

PATENT APPLICATION: US/10/554,173A

Input Set : A:\SEQLIST 2002400.TXT

Output Set: N:\CRF4\03212007\J554173A.raw

L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:600 L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:300